

two pigeon dealers, one of them a German, were arrested m London for having in their possession sixty "carrier and other pigeons" in contravention of the Aliens Restriction Act, and about the same time a German spy was arrested in Belgium with pigeons in his possession under circumstances which left no room for doubt that they were to be used to further his nefarious ends.

Now that armies actually can make use of trained pigeons as photographers, these birds are in the way of becoming important factors in war A miniature camera is now manufactured for this purpose. Sus-pended by straps beneath the bird's breast, its lens is directed downward while the flight continues. Its ac-tion is, of course, automatic, governed by a turning mechanism which causes a roll of film to be exposed at regular intervals.

The possibilities of pigeon photography in war were recognized in Germany some time ago Experiments were made under army super-vision They were successful, views of parks, rivers and bridges and city streets of quite remarkable distinct-ness being developed from the ex-posed portions of film-rolls brought back by the pigeon camera-carriers.

That these aerial messengers are still capable of rendering valuable service, chiefly between forts, is shown by the fact that in Germany there are about 300,000 of these "homing pigeons," belonging to various societies, and of this number about 8,000 are reserved exclusively for Government use.

During the Franco-German War of 1870-71 these pigeons played a very important part. At first they carried dispatches reduced by photography to microscopic proportions on thin

of dispatches, weighing less than one gramme, could be carried by one

The films were rolled up and placed in a quill, which was then fastened lengthwise to one of the fastened lengthwise to one of the tail feathers. Arriving in Paris, the film was flattened out, and the printed matter was thrown on a screen by a lantern and copied Later sensitive paper replaced the screen, so that the labor of copying was saved. The cost of sending measages was high, as may be judged from the fact that the postal fees on a single dispatch would often amount to more than \$500,000. Each dispatch was repeated, sometimes dispatch was repeated, sometimes twenty or thirty times, till acknowledged by balloon post, which brought back the birds for another journey. The Germans spared no effort to frustrat these sources of information. Krupp made special guns to

these birds is now a misnomer, for the "carrier" pigeon is a bird of a different type distinguished by the enormous development of the "wattles" round the eyes and beak. The true "carrier" pigeon is now more correctly known as the homing pigeon, homer, or Antwerp carrier The latter name indicates the origin of the breed, for the Belgians are without rivals for their admiration for this bird and their skill in training it. The home a even in his native land, represented by several races, all of which however, possess the "homing" instinct. These races, "Les Pigeons Voyageurs," are bred first and foremost for their powers of flight colors and markets. of flight, color and marking are of no account.

The speed of some of these birds averaged 1,250 yards a minute, but to day this has been increased to 1,836 yards a minute. The speed, of course, depends much on the state of the weather. In a race between Montargis, and Brussels, in 1876, in bright, weather, thirty hours elapsed before the first bird arrived.

That the homing pigeon possesses an extraordinarily acute sense of direction ti — be no question. A case is on — of a bird bought in Brussels and breight over to England, where it remained in close confinement for several months. Then, one fine day, it was liberated for exercise. It at once made off, and in a few hours was back in its loft in Brussels, having travelled over 400 miles of country which it had never seen before. As a rule, however, these birds are carefully trained, the initial stages beginning at the age of about four months. By the end of the first year a flight of one hundred miles can be successfully performed only by fully matured birds of at least three years old. It is a mistake, however, to suppose, as some do, that they will fly at night or in a fog. They must always have a clear view,

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